

## ABSTRACT OF THE DISCLOSURE

A microprocessor-based gas meter has fully electronic control, safety cutoff and data communication functions, while remains the same size of a conventional gas meter. The control circuit board in the microprocessor-based gas meter is mounted inside the main  
5 body of the gas meter through a mounting slot. The sensors, wires and battery are located in the rest space of the chamber so as to utilize the space of the chamber. When an abnormal situation is detected, the control circuit activates a cutoff valve and shuts off the gas intake. The data communication function is to transfer gas-metering data through telephone lines to the gas company so that the mistakes and cost of manual checking and  
10 recording can be eliminated.